

## Student Learning Outcomes

### BIOL-2009

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#### Five College Learning Outcomes:

- 1. Written, Oral and Visual Communication:** *Communicate effectively in writing, orally and/or visually using traditional and/or modern information resources and supporting technology.*
- 2. Scientific and Quantitative Reasoning:** *Locate, identify, collect, and organize data in order to then analyze, interpret or evaluate it using mathematical skills and/or the scientific method.*
- 3. Critical Thinking:** *Differentiate between facts, influences, opinions, and assumptions to reach reasoned and supportable conclusions.*
- 4. Problem Solving:** *Recognize and identify the components of a problem or issue, look at it from multiple perspectives and investigate ways to resolve it.*
- 5. Information Literacy:** *Formulate strategies to locate, evaluate and apply information from a variety of sources - print and/or electronic.*

#### I. Degrees and Certificates

##### 1. What degrees and certificates does your discipline offer?

We offer the Biology A.S. degree.

##### 2. Keeping in mind the five College Learning Outcomes above as well as what your discipline specifically requires of your graduating students, what should students be able to do when they have completed your discipline's requirements for each degree or certificate?

In most basic terms, students completing the Biology A.S. degree requirements should be able to think like biologists. They should have a good working knowledge of basic biological principles, should understand the methods of generation and application of biological knowledge, should be able to access biological information and process biological data, and should have mastered basic biological field and laboratory techniques.

##### 3. How do students in your program demonstrate that they meet each of the college-wide learning outcomes? What courses, activities, and/or projects are students required to complete that relate to each outcome?

###### i. Written, Oral and Visual Communication

Students take multiple-choice and essay examinations, write laboratory and field reports, read and critique research papers and present their own reports in written and oral form.

###### ii. Scientific and Quantitative Reasoning

Students take multiple-choice and essay examinations, write laboratory and field reports, read and critique research papers and present their own reports in written and oral form.

###### iii. Critical Thinking

Students take multiple-choice and essay examinations, write laboratory and field reports, read and critique research papers and present their own reports in written and oral form.

###### iv. Problem Solving

Students take multiple-choice and essay examinations, write laboratory and field reports, read and critique research papers and present their own reports in written and oral form.

###### v. Information Literacy

Students take multiple-choice and essay examinations, write laboratory and field reports, read and critique research papers and present their own reports in written and oral form.

## **II. General Education:**

**1. Does your discipline offer any classes which count for general education requirements?**

**2. Which General Education courses in your discipline address the each of the five College Learning Outcomes? Please list courses for each of the following:**

**i. Written, Oral and Visual Communication**

**ii. Scientific and Quantitative Reasoning**

**iii. Critical Thinking**

**iv. Problem Solving**

**v. Information Literacy**

## **III. Course Level Outcomes:**

**1. Do all of your Course Outlines of Record include Student Learning Outcomes? If not, are you revising them?**

**2. What percentage of faculty members in your discipline include SLOs in their course syllabi?**

**3. Assessment:**

**i. How often do you assess these SLOs?**

**3. Assessment:**

**ii. In the last two years every discipline developed SLOs specifically related to College Learning Outcome #3: Critical Thinking. Have you assessed this or any of the stated Student Learning Outcomes in your course outlines over the last year? If so, please summarize the results.**

**3. Assessment:**

**iii. What improvements have you made or do you plan to make in the future?**

**3. Assessment:**

**iv. What do you plan to assess this year? Who will you assess? How will you assess?**